

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/021,753

DATE: 01/15/2002
TIME: 19:11:23

Input Set : A:\UTSH251US.txt
Output Set: N:\CRF3\01152002\J021753.raw

**Does Not Comply
Corrected Diskette Needed**

3 <110> APPLICANT: FUJISE, KEN
4 YEH, EDWARD T.H.
6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO FORTILIN, AN
7 ANTI-APOPTOTIC MOLECULE, AND MODULATORS OF FORTILIN
9 <130> FILE REFERENCE: UTSH:251US
cOK 11 <140> CURRENT APPLICATION NUMBER: US/10/021,753
12 <141> CURRENT FILING DATE: 2001-10-30
W--> 14 <140> CURRENT APPLICATION NUMBER: 60/244,416
C1507 15 <141> CURRENT FILING DATE: 2000-10-30
15 <160> NUMBER OF SEQ ID NOS: 9
1517 17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
21 <211> LENGTH: 830
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
24 <220> FEATURE:
25 <221> NAME/KEY: CDS
26 <222> LOCATION: (95)..(613)
30 <400> SEQUENCE: 1
31 cccccccgag cgccgcctcg gtcgcaccgc gctcgctccg agtttcaggc tcgtgctaag 60
33 ctaggcgcgt cgtcgctcc ctgcgtcgcatc atg att atc tac cgg gac ctc 115
34 Met Ile Ile Tyr Arg Asp Leu
35 1 5
37 atc agc cac gat gag atg ttc tcc gac atc tac aag atc cgg gag atc 163
38 Ile Ser His Asp Glu Met Phe Ser Asp Ile Tyr Lys Ile Arg Glu Ile
39 10 15 20
41 gcg gac ggg ttg tgc ctg gag gtg gag ggg aag atg gtc agt agg aca 211
42 Ala Asp Gly Leu Cys Leu Glu Val Glu Gly Lys Met Val Ser Arg Thr
43 25 30 35
45 gaa ggt aac att gat gac tcg ctc att ggt gga aat gcc tcc gct gaa 259
46 Glu Gly Asn Ile Asp Asp Ser Leu Ile Gly Gly Asn Ala Ser Ala Glu
47 40 45 50 55
49 ggc ccc gag ggc gaa ggt acc gaa agc aca gta atc act ggt gtc gat 307
50 Gly Pro Glu Gly Glu Gly Thr Glu Ser Thr Val Ile Thr Gly Val Asp
51 60 65 70
53 att gtc atg aac cat cac ctg cag gaa aca agt ttc aca aaa gaa gcc 355
54 Ile Val Met Asn His His Leu Gln Glu Thr Ser Phe Thr Lys Glu Ala
55 75 80 85
57 tac aag aag tac atc aaa gat tac atg aaa tca atc aaa ggg aaa ctt 403
58 Tyr Lys Lys Tyr Ile Lys Asp Tyr Met Lys Ser Ile Lys Gly Lys Leu
59 90 95 100
61 gaa gaa cag aga cca gaa aga gta aaa cct ttt atg aca ggg gct gca 451
62 Glu Glu Gln Arg Pro Glu Arg Val Lys Pro Phe Met Thr Gly Ala Ala
63 105 110 115
65 gaa caa atc aag cac atc ctt gct aat ttc aaa aac tac cag ttc ttt 499
66 Glu Gln Ile Lys His Ile Leu Ala Asn Phe Lys Asn Tyr Gln Phe Phe
67 120 125 130 135

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69 att ggt gaa aac atg aat cca gat ggc atg gtt gct cta ttg gac tac      547
70 Ile Gly Glu Asn Met Asn Pro Asp Gly Met Val Ala Leu Leu Asp Tyr
71           140           145           150
73 cgt gag gat ggt gtg acc cca tat atg att ttc ttt aag gat ggt tta      595
74 Arg Glu Asp Gly Val Thr Pro Tyr Met Ile Phe Phe Lys Asp Gly Leu
75           155           160           165
77 gaa atg gaa aaa tgt taa caaatgtggc aattattttgc gatctatcac      643
78 Glu Met Glu Lys Cys
79           170
81 ctgtcatcat aactggcttc tgcttgtcat ccacacaaca ccaggactta agacaaatgg 703
83 gactgatgtc atcttgagct cttcatttat tttgactgtg atttatttgg agtggaggca 763
85 ttgtttttaa gaaaacatg tcatgttaggt tgtctaaaaa taaaatgcat ttaaactcat 823
87 ttgagag           830
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91 <211> LENGTH: 172
92 <212> TYPE: PRT
93 <213> ORGANISM: Homo sapiens
95 <400> SEQUENCE: 2
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98 Ile Tyr Lys Ile Arg Glu Ile Ala Asp Gly Leu Cys Leu Glu Val Glu
99   20           25           30
100 Gly Lys Met Val Ser Arg Thr Glu Gly Asn Ile Asp Asp Ser Leu Ile
101   35           40           45
102 Gly Gly Asn Ala Ser Ala Glu Gly Pro Glu Gly Glu Gly Thr Glu Ser
103   50           55           60
104 Thr Val Ile Thr Gly Val Asp Ile Val Met Asn His His Leu Gln Glu
105   65           70           75           80
106 Thr Ser Phe Thr Lys Glu Ala Tyr Lys Lys Tyr Ile Lys Asp Tyr Met
107   85           90           95
108 Lys Ser Ile Lys Gly Lys Leu Glu Glu Gln Arg Pro Glu Arg Val Lys
109   100          105          110
110 Pro Phe Met Thr Gly Ala Ala Glu Gln Ile Lys His Ile Leu Ala Asn
111   115          120          125
112 Phe Lys Asn Tyr Gln Phe Phe Ile Gly Glu Asn Met Asn Pro Asp Gly
113   130          135          140
114 Met Val Ala Leu Leu Asp Tyr Arg Glu Asp Gly Val Thr Pro Tyr Met
115   145          150          155           160
116 Ile Phe Phe Lys Asp Gly Leu Glu Met Glu Lys Cys
117   165          170
121 <210> SEQ ID NO: 3
122 <211> LENGTH: 172
123 <212> TYPE: PRT
124 <213> ORGANISM: Rabbit
126 <400> SEQUENCE: 3
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128   1           5           10           15
130 Ile Tyr Lys Ile Arg Glu Ile Ala Gly Gly Leu Cys Leu Glu Val Glu
131   20           25           30

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133 Gly Lys Met Val Ser Arg Thr Glu Gly Asn Ile Asp Asp Ser Leu Ile
134 35 40 45
136 Gly Gly Asn Ala Ser Ala Glu Gly Pro Glu Gly Glu Gly Thr Glu Ser
137 50 55 60
139 Thr Val Ile Thr Gly Val Asp Ile Val Met Asn His His Leu Gln Glu
140 65 70 75 80
142 Thr Ser Phe Thr Lys Glu Ala Tyr Lys Tyr Ile Lys Asp Tyr Met
143 85 90 95
145 Lys Ser Ile Lys Gly Lys Leu Glu Glu Gln Arg Pro Glu Arg Val Lys
146 100 105 110
148 Pro Phe Met Thr Gly Ala Ala Glu Gln Ile Lys His Ile Leu Ala Asn
149 115 120 125
151 Phe Lys Asn Tyr Gln Phe Tyr Ile Gly Glu Asn Met Asn Pro Asp Gly
152 130 135 140
154 Met Val Ala Leu Leu Asp Tyr Arg Glu Asp Gly Val Thr Pro Phe Met
155 145 150 155 160
157 Ile Phe Phe Lys Asp Gly Leu Glu Met Glu Lys Cys
158 165 170
161 <210> SEQ ID NO: 4
162 <211> LENGTH: 172
163 <212> TYPE: PRT
164 <213> ORGANISM: Mus musculus
166 <400> SEQUENCE: 4
167 Met Ile Ile Tyr Arg Asp Leu Ile Ser His Asp Glu Leu Phe Ser Asp
168 1 5 10 15
170 Ile Tyr Lys Ile Arg Glu Ile Ala Asp Gly Leu Cys Leu Glu Val Glu
171 20 25 30
173 Gly Lys Met Val Ser Arg Thr Glu Gly Ala Ile Asp Asp Ser Leu Ile
174 35 40 45
176 Gly Gly Asn Ala Ser Ala Glu Gly Pro Glu Gly Glu Gly Thr Glu Ser
177 50 55 60
179 Thr Val Val Thr Gly Val Asp Ile Val Met Asn His His Leu Gln Glu
180 65 70 75 80
182 Thr Ser Phe Thr Lys Glu Ala Tyr Lys Tyr Ile Lys Asp Tyr Met
183 85 90 95
185 Lys Ser Leu Lys Gly Lys Leu Glu Glu Gln Lys Pro Glu Arg Val Lys
186 100 105 110
188 Pro Phe Met Thr Gly Ala Ala Glu Gln Ile Lys His Ile Leu Ala Asn
189 115 120 125
191 Phe Asn Asn Tyr Gln Phe Phe Ile Gly Glu Asn Met Asn Pro Asp Gly
192 130 135 140
194 Met Val Ala Leu Leu Asp Tyr Arg Glu Asp Gly Val Thr Pro Phe Met
195 145 150 155 160
197 Ile Phe Phe Lys Asp Gly Leu Glu Met Glu Lys Cys
198 165 170
201 <210> SEQ ID NO: 5
202 <211> LENGTH: 172
203 <212> TYPE: PRT
204 <213> ORGANISM: Chicken

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Input Set : A:\UTSH251US.txt
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206 <400> SEQUENCE: 5
 207 Met Ile Ile Tyr Arg Asp Cys Ile Ser Gln Asp Glu Met Phe Ser Asp
 208 1 5 10 15
 210 Ile Tyr Lys Ile Arg Glu Val Ala Asn Gly Leu Cys Leu Glu Val Glu
 211 20 25 30
 213 Gly Lys Met Val Thr Arg Thr Glu Gly Gln Ile Asp Asp Ser Leu Ile
 214 35 40 45
 216 Gly Gly Asn Ala Ser Ala Glu Gly Pro Glu Gly Glu Thr Glu Ala
 217 50 55 60
 219 Thr Val Ile Thr Gly Val Asp Ile Val Ile Asn His His Leu Gln Glu
 220 65 70 75 80
 222 Thr Ser Phe Thr Lys Glu Ser Tyr Lys Tyr Ile Lys Asp Tyr Met
 223 85 90 95
 225 Lys Ala Ile Lys Ala Arg Leu Glu Glu His Lys Pro Glu Arg Val Lys
 226 100 105 110
 228 Pro Phe Met Thr Gly Ala Ala Glu Gln Ile Lys His Ile Leu Ala Asn
 229 115 120 125
 231 Phe Lys Asn Tyr Gln Phe Phe Ile Gly Glu Asn Met Asn Pro Asp Gly
 232 130 135 140
 234 Met Val Ala Leu Leu Asp Phe Arg Glu Asp Gly Val Thr Pro Tyr Met
 235 145 150 155 160
 237 Ile Phe Phe Lys Asp Gly Leu Glu Ile Glu Lys Cys
 238 165 170
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 242 <211> LENGTH: 172
 243 <212> TYPE: PRT
 244 <213> ORGANISM: D. Melanogaster
 246 <400> SEQUENCE: 6
 247 Met Lys Ile Tyr Lys Asp Ile Ile Thr Gly Asp Glu Met Phe Ala Asp
 248 1 5 10 15
 250 Thr Tyr Lys Met Lys Leu Val Asp Asp Val Ile Tyr Glu Val Tyr Gly
 251 20 25 30
 253 Lys Leu Ile Thr Arg Gln Gly Asp Asp Ile Lys Leu Glu Gly Ala Asn
 254 35 40 45
 256 Ala Ser Ala Glu Glu Ala Asp Glu Gly Thr Asp Ile Thr Ser Glu Ser
 257 50 55 60
 259 Gly Val Asp Val Val Leu Asn His Arg Leu Thr Glu Cys Phe Ala Phe
 260 65 70 75 80
 262 Gly Asp Lys Lys Ser Tyr Thr Leu Tyr Leu Lys Asp Tyr Met Lys Lys
 263 85 90 95
 265 Val Leu Ala Lys Leu Glu Glu Lys Ser Pro Asp Gln Val Asp Ile Phe
 266 100 105 110
 268 Lys Thr Asn Met Asn Lys Ala Met Lys Asp Ile Leu Gly Arg Phe Lys
 269 115 120 125
 271 Glu Leu Gln Phe Phe Thr Gly Glu Ser Met Asp Cys Asp Gly Met Val
 272 130 135 140
 274 Ala Leu Val Glu Tyr Arg Glu Ile Asn Gly Asp Ser Val Pro Val Leu
 275 145 150 155 160
 277 Met Phe Phe Lys His Gly Leu Glu Glu Lys Cys

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Input Set : A:\UTSH251US.txt
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278 165 170
 281 <210> SEQ ID NO: 7
 282 <211> LENGTH: 181
 283 <212> TYPE: PRT
 284 <213> ORGANISM: C. ELEGANS
 286 <400> SEQUENCE: 7
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 288 1 5 10 15
 290 Ser Phe Pro Met Lys Leu Val Asp Asp Leu Val Tyr Glu Phe Lys Gly
 291 20 25 30
 293 Lys His Val Val Arg Lys Glu Gly Glu Ile Val Leu Ala Gly Ser Asn
 294 35 40 45
 296 Pro Ser Ala Glu Glu Gly Ala Glu Asp Asp Gly Ser Asp Glu His Val
 297 50 55 60
 299 Glu Arg Gly Ile Asp Ile Val Leu Asn His Lys Leu Val Glu Met Asn
 300 65 70 75 80
 302 Cys Tyr Glu Asp Ala Ser Met Phe Lys Ala Tyr Ile Lys Lys Phe Met
 303 85 90 95
 305 Lys Asn Val Ile Asp His Met Glu Lys Asn Asn Arg Asp Lys Ala Asp
 306 100 105 110
 308 Val Asp Ala Phe Lys Lys Ile Gln Gly Trp Val Val Ser Leu Leu
 309 115 120 125
 311 Ala Lys Asp Arg Phe Lys Asn Leu Ala Phe Phe Ile Gly Glu Arg Ala
 312 130 135 140
 314 Ala Glu Gly Ala Glu Asn Gly Gln Val Ala Ile Ile Glu Tyr Arg Asp
 315 145 150 155 160
 317 Val Asp Gly Thr Glu Val Pro Thr Leu Met Leu Val Lys Glu Ala Ile
 318 165 170 175
 320 Ile Glu Glu Lys Cys
 321 180
 324 <210> SEQ ID NO: 8
 325 <211> LENGTH: 166
 326 <212> TYPE: PRT
 327 <213> ORGANISM: S. Cerevisiae
 329 <400> SEQUENCE: 8
 330 Met Ile Ile Tyr Lys Asp Ile Phe Ser Asn Asp Glu Leu Leu Ser Asp
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 334 20 25 30
 336 Ala Met Val Asn Val Gly Gly Asp Asn Ile Asp Ile Gly Ala Asn Pro
 337 35 40 45
 339 Ser Ala Glu Gly Gly Asp Asp Val Glu Glu Gly Ala Glu Met Val
 340 50 55 60
 342 Asn Asn Val Val His Ser Phe Arg Leu Gln Gln Thr Ala Phe Asp Lys
 343 65 70 75 80
 345 Lys Ser Phe Leu Thr Tyr Ile Lys Gly Tyr Met Lys Ala Val Lys Ala
 346 85 90 95
 348 Lys Leu Gln Glu Thr Asn Pro Glu Glu Val Pro Lys Phe Glu Lys Gly
 349 100 105 110

VERIFICATION SUMMARY
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Input Set : A:\UTSH251US.txt
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L:14 M:280 W: Numeric Identifier already exists, <140> found multiple times
L:14 M:281 W: Numeric Fields not Ordered, <140> not ordered!.
L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:280 W: Numeric Identifier already exists, <141> found multiple times
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date